(13) A1

(40) 06.06.2002 (43) 06.06.2002

An Agency of Industry Canada Un organisme d'Industrie Canada

(12)

-(21) 2 430 073

(22) 29.11.2001

(51) Int. Cl.7:

C07D 339/04

(85) 27.05.2003

(86) PCT/EP01/13955

(87) WO02/044163

(30)

100 59 718.1 DE 30.11.2000

(71)

BASF AKTIENGESELLSCHAFT, 67056, LUDWIGSHAFEN, XX (DE). (72)

KLATT, MARTIN JOCHEN (DE). NIEBEL, MARKUS (DE). PAUST, JOACHIM (DE).

(74)

ROBIC

(54) PROCEDE DE FABRICATION D'ACIDE LIPONIQUE ET D'ACIDE DIHYDROLIPONIQUE

(54) METHOD FOR PRODUCING LIPOIC ACID AND DIHYDROLIPOIC ACID

(57)

The invention relates to a method for producing Rand S-lipoic acid and R- dihydrolipoic acid comprising the following steps: (a) reaction of the compound of formula (2) with sodium sulphide and sulphur in methanol, whereby Ms represents SO2R', and R and R' independently of one another represent C1-C6 alkyl, C3-C8-cycloalkyl, C3-C8-cycloalkyl, aryl or aralkyl. The invention relates in particular to methods for producing pure R- or S-dihydrolipoic acid, which is either used directly or processed further to obtain R- and S- lipoic acid. The method is also used to produce medicaments. The invention also relates to a solution of sodium sulphide-trihydrate and sulphur in methanol, whereby the sulphur is present as a molar surplus in relation to the sodium sulphide-trihydrate, and to a kit that comprises the inventive solution.

Un organisme d'Industrie Canada Canadian
Intellectual Property
Office
agency of
Industry Canada

(12) DEMANDE DE EVET CANADIEN CANADIAN PATENT APPLICATION

(13) **A1**

(86) Date de dépôt PCT/PCT Filing Date: 2001/11/29

(87) Date publication PCT/PCT Publication Date: 2002/06/06

(85) Entrée phase nationale/National Entry: 2003/05/27

(86) N° demande PCT/PCT Application No.: EP 2001/013955

(87) N° publication PCT/PCT Publication No.: 2002/044163

(30) Priorité/Priority: 2000/11/30 (100 59 718.1) DE

(51) Cl.Int.7/Int.Cl.7 C07D 339/04

(71) Demandeur/Applicant: BASF AKTIENGESELLSCHAFT, DE

(72) Inventeurs/Inventors: KLATT, MARTIN JOCHEN, DE; NIEBEL, MARKUS, DE; PAUST, JOACHIM, DE

(74) Agent: ROBIC

(54) Titre: PROCEDE DE FABRICATION D'ACIDE LIPONIQUE ET D'ACIDE DIHYDROLIPONIQUE

(54) Title: METHOD FOR PRODUCING LIPOIC ACID AND DIHYDROLIPOIC ACID

(57) Abrégé/Abstract:

The invention relates to a method for producing R- and S-lipoic acid and R-dihydrolipoic acid comprising the following steps: (a) reaction of the compound of formula (2) with sodium sulphide and sulphur in methanol, whereby Ms represents SO^2R , and R and R independently of one another represent C_1 - C_6 alkyl, C_3 - C_8 -cycloalkyl, C_3 - C_8 -cycloalkylalkyl, aryl or aralkyl. The invention relates in particular to methods for producing pure R- or S-dihydrolipoic acid, which is either used directly or processed further to obtain R- and S-lipoic acid. The method is also used to produce medicaments. The invention also relates to a solution of sodium sulphide-trihydrate and sulphur in methanol, whereby the sulphur is present as a molar surplus in relation to the sodium sulphide-trihydrate, and to a kit that comprises the inventive solution.







